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Enterprise Architect - Use Case Model

... implement some or all of the Login **functionality**. ... or realisation links define the **traceability** from the formal **requirements**, through **Use Cases** on to ...

www.sparxsystems.com.au/use_case_model.htm - 14k - [Cached](#) - [Similar pages](#)

[PDF] Requirements Management Use Cases Requirements Management ...

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... **Use Cases** are a showcase in which **requirements** are ... **Traceability** should be performed by those ... to go from individual **functional requirement** to individual ...

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Traceability Strategies for Managing Requirements with Use Cases

... 3 Software **Requirements** (both **functional** and non-**functional**). ... all of the traditional **traceability** types and the component parts of the **use-case model** opens up ...

www.huihoo.com/development/rup/traceability.htm - 101k - [Cached](#) - [Similar pages](#)

Use Cases and Testing

... having our domain expert scour the **use cases**, we proceed ... the third type of testing—**traceability** testing. ... we can trace from the **functional requirements** to the ...

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Services: Training: Requirements with UML

... **Functional requirements** • **Non-functional requirements** • **Validation rules** • **Traceability**. ... **Link with use cases** • **Validation rules**. ...

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[PPT] UML Use Cases

File Format: Microsoft Powerpoint 97 - [View as HTML](#)

... buildable & verifiable **functional requirements**—especially for large ... **Volatility** = # **Changes** / # **Requirements**. **Traceability** = # **Use Cases** Traced to **Test Cases**. ...

sas.ivv.nasa.gov/conclusion2003/McCoy_UseCase.ppt - [Similar pages](#)

[PPT] Use Case Modeling

File Format: Microsoft Powerpoint 97 - [View as HTML](#)

... Better **traceability**. Easier user validation of **functional requirements**. ... A **Use Case model** is described in UML (Unified Modeling Language) as one or more **Use Case** ...

webcourse.cs.technion.ac.il/234321/Winter2004-2005/ho/WCFiles/04-use-case-modeling.ppt - [Similar pages](#)

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... **use case**; 5. Special **Requirements**: **Non-functional requirements** specific to ... and the creation of **traceability** links between visual **use cases** and their ...

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[PDF] From Requirements to Design with Use Cases

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... **Use case** modelling can support **requirements traceability**. ... dynamic behaviour, specified by **functional requirements** and black-box **use cases**, was possible to ...

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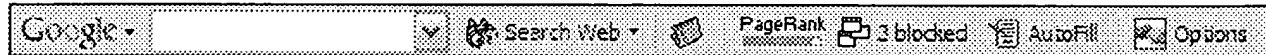
... from Conf licts) Decision (f rom Dec ision) **Functional requirement** (f rom ... af ects
to 1..* 0..* 1..* 0..* represents **Use cases** help in **traceability** in the ...

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Analyzing user requirements by use cases: a goal-driven approach

[Lee, J.](#) [Nien-Lin Xue](#)

Dept. of Comput. Sci. & Inf. Eng., Nat. Central Univ., Chung-Li, Taiwan;

This paper appears in: **Software, IEEE**

Publication Date: July-Aug. 1999

On page(s): 92 - 101

Volume: 16 , Issue: 4

ISSN: 0740-7459

Reference Cited: 19

CODEN: IESOEG

Inspec Accession Number: 6316336

Abstract:

The purpose of requirements engineering is to elicit and evaluate necessary and valuable user needs. Current **use-case** approaches to requirements acquisition inadequately support **use-case** formalization and nonfunctional requirements. Based on industry trends and research, the authors have developed a method to structure **use-case** models with goals. They use a simple meeting planner system to illustrate the benefits of this new approach

Index Terms:

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1 Attribute grammar paradigms—a high-level methodology in language

Jukka Paakki

June 1995

ACM Computing Surveys (CSUR), Volume 27 Issue 2

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Attribute grammars are a formalism for specifying programming languages. The number of systems automatically producing language implementations from their specification languages can be evaluated and classified according to their characteristics, and degree of automation. A survey of attribute grammar-based modern advanced specification ...

Keywords: attribute grammars, blocks, classes, compiler writing systems, functionality, incrementality, inheritance, language processing, language processor generation, objects, parallelism, processes, programming paradigms, semantic functions,

2 Subject-oriented design: towards improved alignment of requirements, design

Siobhán Clarke, William Harrison, Harold Ossher, Peri Tarr

October 1999 ACM SIGPLAN Notices , Proceedings of the 14th ACM SIGPLAN conference on programming languages, systems, languages, and applications, Volume 34 Issue 10

Full text available: pdf(2.02 MB)

Additional Information: full citation, references, citings

Keywords: analysis and design methods, software engineering practices

3 A survey of structured and object-oriented software specification methods

Roel Wieringa

December 1998

ACM Computing Surveys (CSUR), Volume 30 Issue 4

Full text available:  pdf(605.26 KB)

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This article surveys techniques used in structured and object-oriented software specification. Techniques are classified as techniques for the specification of external interaction and internal communication. After surveying the techniques, we summarize the way they are used in object-oriented methods and indicate ways in which they can be improved.

Keywords: languages

4 PRIME—toward process-integrated modeling environments: 1

Klaus Pohl, Klaus Weidenhaupt, Ralf Dömges, Peter Haumer, Matthias Jarke, Ralf

October 1999

ACM Transactions on Software Engineering and Methodology (TOS

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Research in process-centered environments (PCEs) has focused on project management guidance for the engineers performing the (software) engineering process. Research on the computer-based engineering environments, i.e., the interactive tools used in these environments, has been studied much less. In this article, we present a survey of research in this area.

Keywords: PRIME, method guidance, process modeling, process-centered environments, process-sensitive tools, tool integration, tool modeling

5 Eliciting software process models with the E3 language

Maria Letizia Jaccheri, Gian Pietro Picco, Patricia Lago

October 1998

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Software processes are complex entities that demand careful understanding and description of the entities involved and of their mutual relationships. Process modeling is this description under the shape of a software process model. The model is composed of sources, process steps, and relationships.

Keywords: associations, process model elicitation, software process modeling

6 Draft report on requirements for a common prototyping system

R. P. Gabriel

March 1989 ACM SIGPLAN Notices, Volume 24 Issue 3

Full text available:  pdf(4.76 MB) Additional Information: full citation, citations, index terms

7 Evolutionary design of complex software (EDCS) demonstration days 1999

Wayne Stidolph

January 2000 ACM SIGSOFT Software Engineering Notes, Volume 25 Issue

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This report summarizes the Product/Technology demonstrations given at Defe (DARPA) Evolutionary Design of Complex Software (EDCS) Program Demonstr Sheraton National Hotel, Arlington, VA.

8 On randomization in sequential and distributed algorithms

Rajiv Gupta, Scott A. Smolka, Shaji Bhaskar

March 1994 ACM Computing Surveys (CSUR), Volume 26 Issue 1

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Probabilistic, or randomized, algorithms are fast becoming as commonplace as This survey presents five techniques that have been widely used in the design techniques are illustrated using 12 randomized algorithms—both seque a wide range of applications, including: primality testing (a classical problem in probabilistic proof s ...

Keywords: Byzantine agreement, CSP, analysis of algorithms, computational c distributed algorithms, graph isomorphism, hashing, interactive probabilistic p routing, nearest-neighbors problem, perfect hashing, primality testing, probab probabilistic algorithms, randomized quicksort, sequential algorithms, transitiv

9 UML (panel): the language of blueprints for software?

Derek Coleman, Viktor Ohnjec, John Artim, Erick Rivas, Jim Rumbaugh, Rebecca

October 1997 ACM SIGPLAN Notices , Proceedings of the 12th ACM SIGPLAN confe systems, languages, and applications, Volume 32 Issue 10


Full text available:  pdf(749.57 KB) Additional Information: full citation, abstract, referen

The Unified Method was launched by Grady Booch and Jim Rumbaugh at an O organised by Rational Software Corporation. In 1996 the Unified Method was i the Unified Modeling Language (UML). Earlier this year, UML was submitted to standardisation and has been endorsed by Microsoft, IBM, HP, Platinum Techn corporations. No wonder UML is the leading contender as the *d* ...

10 Performance evaluation of software architectures

Lloyd G. Williams, Connie U. Smith

October 1998 Proceedings of the first international workshop on Software and per


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11 Communication metrics for software development

Bernd Bruegge, Allen H. Dutoit

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Keywords: communication, empirical software engineering, software develop
projects

12 Gross motion planning—a survey

Yong K. Hwang, Narendra Ahuja

September 1992

ACM Computing Surveys (CSUR), Volume 24 Issue 3

Full text available:  pdf(6.40 MB)

Additional Information: full citation, abstract, references, citings

Motion planning is one of the most important areas of robotics research. The c
problem has hindered the development of practical algorithms. This paper sur
planning, including motion planners for point robots, rigid robots, and manipu
constrained, and movable-object environments. The general issues in motion
approaches and their performances are briefly described, a ...

Keywords: collision detection, computational geometry, implementation, moti
planning, spatial representation

13 Parallelism for free: efficient and optimal bitvector analyses for parallel prog

Jens Knoop, Bernhard Steffen, Jürgen Vollmer

May 1996 ACM Transactions on Programming Languages and Systems (TOPLAS)

Full text available:  pdf(369.32 KB)

Additional Information: full citation, abstract, references,

We consider parallel programs with shared memory and interleaving semantic
for unidirectional bitvector problems optimal analysis algorithms that are as e
counterparts and that can easily be implemented. Whereas the complexity res
result is a consequence of a new Kam/Ullman-style Coincidence Theorem. Th
algorithms for sequential programs computing liv ...


Keywords: assignment motion, bitvector problems, code motion, data flow an
semantics, parallelism, partial dead-code elimination, program optimization, s
synchronization

14 Different perspectives on information systems: problems and solutions

Kalle Lyytinen

March 1987

ACM Computing Surveys (CSUR), Volume 19 Issue 1

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The paper puts information systems (IS) research dealing with IS problems in surveyed and classified. Using the IS research framework suggested by Ives, problems is classified into several perspectives whose relevance in coping with perspectives focusing on IS operations environment, IS development process, development methods, and IS theories are distingu ...

15 The concurrency workbench: a semantics-based tool for the verification of

Rance Cleaveland, Joachim Parrow, Bernhard Steffen

January 1993

ACM Transactions on Programming Languages and Systems (TOPL

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The Concurrency Workbench is an automated tool for analyzing networks of finite state machines. It is based on Milner's Calculus of Communicating Systems. Its key feature is its breadth: a including equivalence checking, preorder checking, and model checking, are semantics. One experience from our work is that a large number of interesting as combinations of a small number ...

Keywords: automatic verification, concurrency, finite-state systems, process a

16 Total correctness by local improvement in the transformation of functional p

David Sands

March 1996

ACM Transactions on Programming Languages and Systems (TOPLA

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The goal of program transformation is to improve efficiency while preserving r transformation techniques is Burstall and Darlington's unfold-fold method. Uni guarantees neither improvement in efficiency nor total correctness. The correc instance of a strictly more general problem: transformation by locally equivalence necessarily preserve (global) equivalence. Th ...

Keywords: correctness, improvement, operational equivalence, program trans

17 Managing the software design documents with XML

Junichi Suzuki, Yoshikazu Yamamoto

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Keywords: CASE data interchange, UML, XML, software model interchange

18 Performance analysis of communication systems formally specified in SDL

Martin Steppler

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19 Developing a user information architecture for Rational's ClearCase product

Mary Hunter Utt, Robert Mathews

October 1999 Proceedings of the 17th annual international conference on Comp

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Additional Information: full citation, abstract, references, c

Information architecture, like information development and delivery, has much counterpart. This paper describes how the Rational ClearCase® documentation architecture to meet changing industry, corporate, and product requirements. Our architecture development process mapped closely to the Rational Unified Process approach to software architecture and development ...

Keywords: ClearCase documentation, RUP, Rational Unified Process, informati

20 Increasing the flexibility of modelling tools via constraint-based specification

Philip Gray, Ray Welland

November 1999 Proceedings of the 1999 conference of the Centre for Advanced S

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Most commercial modelling tools provide support for customising surface features (e.g. interactive behaviour) of a model. Although useful and simple to use, such customisation, for example, one cannot change the basic representation of model components. For much greater customisation, but at a high cost, viz., the tool must be re-specified. This approach, constraint-based specification, ...

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1 State-of-the-art presentations: Distributed component technologies and the Wolfgang Emmerich

May 2002

Proceedings of the 24th International Conference on Software Engin

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In this state of the art report, we review advances in distributed component technologies. We review the Beans specification and the CORBA Component Model. We assess the state of distributed components. We show several architectural styles for whose implementation have been used successfully. We review the use of iterative and incremental development model driven architecture. We then assess the state of the art.

2 Software engineering and middleware: a roadmap

Wolfgang Emmerich

May 2000 Proceedings of the Conference on The Future of Software Engineering

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Additional Information: full citation, references, citations, index terms

3 One and two-day tutorials: Usage-centered software engineering: an agile : interfaces, and usability into software engineering practice

Larry L. Constantine, Lucy A. D. Lockwood

May 2003

Proceedings of the 25th International Conference on Software Engin

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Usage-centered design is a systematic, model-driven approach to visual and in record of effectiveness in a wide variety of settings and areas of application. T methods of usage-centered design and explores the integration of usage-cent engineering practice. Agile approaches to modeling will be emphasized, with t to usage-centered design and serve as a comm ...

4 Posters: Specifying and executing requirements: the play-in/play-out appro

Rami Marelly, David Harel, Hillel Kugler

November 2002 Companion of the 17th annual ACM SIGPLAN conference on Objec languages, and applications

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A powerful methodology for specifying scenario-based requirements of reactive behavioral requirements are "played in" directly from the system's GUI or son behavior can then be "played out" freely, just as if a conventional system moc supported and illustrated by a tool we have built, which we call the *play-engin* many stages of system development, includi ...

Keywords: UML, requirements engineering, scenarios, system modeling and e

5 Security & analysis II: MAC and UML for secure software design

Thuong Doan, Steven Demurjian, T. C. Ting, Andreas Ketterl

October 2004 Proceedings of the 2004 ACM workshop on Formal methods in sec

Full text available:  pdf(388.40 KB)

Additional Information: full citation, abstract, reference


Security must be a first class citizen in the design of large scale applications, at early and all stages of the lifecycle, for accurate authorization, authentication, enforcement, and assurance. One software design is the <i>unified modeling language, UML,</i> visualizing, constructing and documenting software artifacts. In alternate perspectives for diffe ...

Keywords: UML, mandatory access control, security, software d

6 Change cases: use cases that identify future requirements

Earl F. Ecklund, Lois M. L. Delcambre, Michael J. Freiling

October 1996 ACM SIGPLAN Notices , Proceedings of the 11th ACM SIGPLAN conference on programming languages, systems, languages, and applications, Volume 31 Issue 10

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Evolution of software systems is prompted by all sorts of changes. This paper presents a well-known construct in object-oriented analysis, is adapted to form the *change case* to capture system changes. A change case provides the ability to identify and incorporate changes to enhance the long-term robustness of that design. In this paper, we define change cases and how they are captured ...

7 The use of object-oriented models in requirements engineering: a field study

Linda Dawson, Paul Swatman

January 1999 Proceedings of the 20th international conference on Information Systems

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8 How use case modeling policies have affected the success of various project modeling)

Periannan Chandrasekaran

January 1997 Addendum to the 1997 ACM SIGPLAN conference on Object-oriented programming and applications (Addendum)



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9 How to identify binary relations for domain models

Hermann Kaindl

May 1996 Proceedings of the 18th international conference on Software engineering

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Many approaches to requirements engineering include building a model of the domain. These approaches either employ the concept of relations between entities, or more of an art than science or engineering. We deal with this problem primarily in the context of object-oriented analysis (OOA), where relations between object classes are to be identified. Our approach defines object classes and how they are captured ...

Keywords: ATM, OOA, abstract data types, automated teller machine, automata, processing, binary relations, domain models, entity relationship modeling, formal definitions, natural languages, object classes, object oriented analysis, object-oriented experience, requirements engineering

10 Communication technology II - Internet, services, and architectures: Object the development of accommodation services system

Siti Hafizah Ab. Hamid, Tan Yoke Pei, Nazeen Jomhari

September 2003 Proceedings of the 1st international symposium on Information &

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This paper presents a case study highlighting the best practices in designing a system. It used web-based application and WAP-base application in a system. and UML in designing. All diagrams offered by UML were used successfully due adequate support for multi-technology and easily to use in term of using object study shows that object-oriented metho ...

Keywords: UML design, accommodation services system, object-oriented anal

11 Designing more deeper: integrating task analysis, process simulation, & ob

Keith A. Butler, Chris Exposito, Dan Klawitter

August 1997 Proceedings of the conference on Designing interactive systems: pro techniques

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Keywords: business oriented components, object modeling, process modeling,

12 Virtual extension: Object-oriented modeling with UML: a study of developer

Ritu Agarwal, Atish P. Sinha

September 2003 Communications of the ACM, Volume 46 Issue 9

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Andreas Rausch

June 2000 Proceedings of the 22nd international conference on Software engi

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In practice, pure top-down and refinement-based development processes are incremental approach is applied instead. Existing methodologies, however, do development processes very well. In this paper, we present the basic concept: component ware and software evolution. The foundation of our methodology i component-based systems. This mode ...

Keywords: componentware, contracts, description techniques, formal methods architecture, software evolution

14 Subject-oriented design: towards improved alignment of requirements, desi

Siobhán Clarke, William Harrison, Harold Ossher, Peri Tarr

October 1999 ACM SIGPLAN Notices , Proceedings of the 14th ACM SIGPLAN confe
systems, languages, and applications, Volume 34 Issue 10Full text available:  pdf(2.02 MB)

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Keywords: analysis and design methods, software engineering practices

15 Designing DEEPER: towards a user-centered development environment



Keith A. Butler

August 1995 Proceedings of the conference on Designing interactive systems: pro
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16 Comparing and reconciling usability-centered and use case-driven requirer

A. Seffah, R. Djouab, H. Antunes


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interface, Volume 23 Issue 5Full text available:  pdf(641.83 KB)  Publisher Site

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During the two last decades, the human-computer interaction community has
and tools for gathering, specifying and validating usability requirements includ
environment as well as usability goals such as effectiveness, efficiency and us
their importance are accepted by software developers, they are not yet cost-e
engineering methodologies. This page ...

17 Lessons from the battlefield

Thomas P. Vayda

October 1995 ACM SIGPLAN Notices , Proceedings of the tenth annual conference
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The pragmatic aspects of deploying large scale Object Oriented (OO) applicati
identifying some of the main obstacles that arise in typical large scale OO pro
solutions. This The topics are based on a number of actual large scale projects
significant capacity and solutions that he adopted or developed to deal with th

18 Transition to object-oriented software development

Mohamed E. Fayad, Wei-Tek Tsai, Milton L. Fulghum

February 1996 Communications of the ACM, Volume 39 Issue 2

Full text available:  pdf(451.14 KB) Additional Information: full citation, references, citin

19 Development of an OO infrastructure for mainframe database applications

Darryl James Rothering

October 1994 ACM SIGPLAN Notices , Proceedings of the ninth annual conference systems, language, and applications, Volume 29 Issue 10

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Additional Information: full citation, abstract, references

Large mainframe installations need and want to exploit the advantages of Object Orientation by abandoning their legacy environments. Implementing Object Orientation in such a challenge: there is neither language support, nor development tools, nor execution environment. Yet Object Orientation can be fully implemented, and a project can still meet its tough delivery time scales. ...

20 Refactoring use case models: the metamodel

Kexing Rui, Greg Butler

February 2003 Proceedings of the twenty-sixth Australasian computer science conference practice in information technology - Volume 16

Full text available:  pdf(356.03 KB)

Additional Information: full citation, abstract, references




This paper describes how refactoring as a concept can be broadened to apply to use case modeling. Use case modeling is described in detail, which represents our perspective on how it allows us to define several categories of use case refactorings that help us discuss and perform refactorings. A list of current refactorings is given. Finally, we illustrate the concepts with a simple example.

Keywords: episode, goal, metamodel, refactoring, software maintenance, task analysis

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